

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/090041 A2

(51) International Patent Classification⁷: **C08L 83/04**

(21) International Application Number:
PCT/JP2004/005014

(22) International Filing Date: 7 April 2004 (07.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2003-103252 7 April 2003 (07.04.2003) JP
2003-160302 5 June 2003 (05.06.2003) JP

(71) Applicant (for all designated States except US): **DOW CORNING ASIA CO. LTD.** [JP/JP]; 1-3 Marunouchi 1-chome, Chiyoda-ku, Tokyo, 1000005 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KUSHIBIKI, Nobuo** [JP/JP]; 2-6-22 Honfujisawa Fujisawa-shi, Kanagawa, 2510875 (JP). **OGAWA, Takuya** [JP/JP]; 1-36-8, Isobe Mihamachi, Chiba-shi, Chiba, 2610012 (JP). **TAKEUCHI, Kikuko** [JP/JP]; 57-2 Ikoma Minamiashigara-shi Kanagawa, 2500124 (JP).

(74) Agent: **KUBOTA, Yoshitaka**; c/o Asa International Patent Firm Chiba Office 43-27, Satsukigaoka 1-chome, Hanamigawa-ku, Chiba-shiChiba, 2620014 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

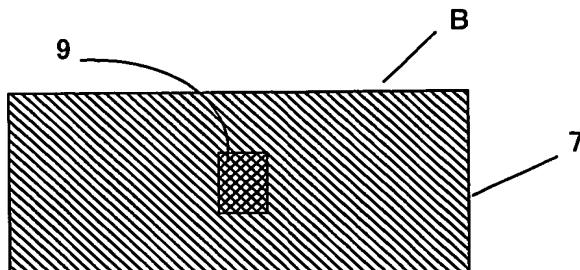
Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CURABLE ORGANOPOLYSILOXANE RESIN COMPOSITION FOR OPTICAL TRANSMISSION COMPONENTS, OPTICAL TRANSMISSION COMPONENTS, AND FABRICATION PROCESS THEREOF

WO 2004/090041 A2



(57) Abstract: The present invention relates to a hydrosilation-curable organopolysiloxane resin composition comprising (A) an organopolysiloxane resin having three or more monovalent unsaturated aliphatic hydrocarbon groups and aromatic hydrocarbon groups, (B) an organosilicon compound having two or more silicon-bonded hydrogen atoms and aromatic hydrocarbon groups, (C) a hydrosilation catalyst, and optionally (D) (d1) a solvent or (d2) a hydrosilation -reactive organosiloxane-based diluent, for optical transmission components, especially for optical transmission components serving as optical communication elements, relates to optical transmission components, represented by optical waveguides, comprising a hydrosilation-cured product of the aforementioned organopolysiloxane resin and organosilicon compound, and relates to a process for fabricating optical transmission components.